

APPENDIX E: THERMOMETER TEMPERATURE CALIBRATION	Page 1 of 1
QUALITY ASSURANCE PROGRAM DNA TYPING OF BIOLOGICAL MATERIALS - FORENSIC BIOLOGY SECTION PROCEDURE MANUAL, SECTION VI	Issue No.: 3
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<p>APPENDIX E: THERMOMETER TEMPERATURE CALIBRATION</p> <p>Thermometers will be verified upon receipt for accuracy at the temperature of intended use. If available, a thermometer certified by the National Institute of Standards and Technology (NIST) should be used for comparison. However, a thermometer that is traceable to a NIST thermometer may also be used.</p> <ol style="list-style-type: none"> 1. Tag each thermometer with an identifying number. 2. Place all of the thermometers in a vessel containing water at a temperature approximately 4⁰C below the temperature of intended use. For the temperature range 1-6⁰C, add salt and ice to the water to bring the temperature below 0⁰C. 3. Record the temperature shown on each thermometer. 4. Next warm water to approximately 4⁰C above the temperature of intended use. 5. Place thermometers into the warmed water and record the temperature of each thermometer. 6. All thermometers should be within $\pm 1^0\text{C}$ of the NIST thermometer or a thermometer traceable to a NIST thermometer. Any thermometer that varies more than $\pm 1^0\text{C}$ in the range of intended use will not be used. <p>NOTE: If a thermometer is not acceptable at a specified temperature range (e.g., 37⁰C, 56⁰C, or 95⁰C) this does not preclude the thermometer from being used at another temperature providing it has passed the quality control test.</p> <p style="text-align: right;">◆END</p>	